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NASA UNIFORM FILES INDEX

UNIFORM FILES INDEX

UNIFORM

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NASA

National
Aeronautics and
Space
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PREFACE

This handbook is a guide for the use of all personnel engaged in handling NASA files. It is issued in accordance with the Federal Property Management Regulation Subpart 101-11.2, Creation of Records, and the Federal Information Resources Management Regulation Subpart 201-45.204, Files Management.

It is intended to provide a standardized classification and filing scheme to achieve maximum uniformity and ease in maintaining and using agency records. It is a framework for consistent organization of information in an arrangement that will be useful to current and future researchers.

Members of the NASA Historical Advisory Committee have advocated the idea of a matrix of NASA subject headings and adequate cross references to facilitate retrieval of information by historians and other users. The Committee has endorsed in principle the NASA Uniform Files Index.

The NASA Uniform Files Index coding structure is composed of the subject classification table used for NASA management directives and the authorized subject groups in the NASA scientific and technical information system. It is designed to correlate files of correspondence, directives, and reports throughout NASA. It is anticipated that it will be suitable also for automated filing systems with direct access devices such as magnetic disks. It may be considered for future applicability for form numbers and file locations.

It is expected that in the conversion of current files to the NASA Uniform Files Index arrangement it probably will be necessary to add tertiary subjects and further subdivisions under the existing categories. However, the established primary and secondary subject categories may not be changed arbitrarily. If there is a proposal for additional subject categories of NASA-wide applicability, the requirements should be addressed to the Records Management Officer at the pertinent installation who will forward it to the NASA Records Officer, NIM, for approval.

Suggestions for improvement in this handbook also should be sent to the NASA Records Officer to be considered for inclusion in a revision.

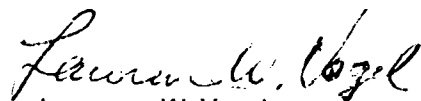

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INTRODUCTION

The NHB 1442.1, NASA Uniform Files Index is to be used to establish a standard pattern of files in NASA offices. It can be used whether the control system is manually operated or computer based.

The arrangement can be used by any NASA office regardless of the size and volume of files. It will not be necessary for all offices to set up files in all the subjects. Only those subjects which reflect actual responsibilities should be selected for the office files outline.

The first step in transition is to list the titles of the current office files, compare the outline to the NASA Uniform Files Index, and rearrange at the earliest convenience. Some may find it necessary to add subdivisions under the existing categories. Subdivisions, such as the name of projects, contract numbers, and work categories are logical extensions. Subdivisions should be assigned arabic numerals.

Whether an office maintains a large volume of records or merely a few files, they should be kept in such a manner that persons can readily obtain them when needed. The records of an office must remain usable regardless of personnel or organizational changes. It is necessary, therefore, that some deliberate plan be used for filing records so that a "finding key" to the information will be available and the file arrangement will be understandable to all persons who use the records. Use of the NASA Uniform Files Index will simplify the inevitable transfer of custodianship of the files to other employees.

The history, policies, programs, procedures, and administrative experiences of the agency are documented by recorded information regardless of physical form or characteristics. Information accumulated in the records is essential to the agency's efficient and continued operation. The usefulness of recorded information is largely dependent upon the logical arrangement of records in some sequential order. The files organization will determine how the records will be retrieved.

A file is a collection of related records. Each record in a file is included because it pertains to the same entity. A record is a complete set of related data items pertaining to an entity of agency matters.

Selection of the file subject categories will be based upon the office functions. The assignment pattern — how work is actually parcelled out to officials and supervisors responsible for action — can always be identified with the programs handled by the agency. All incoming items are received and acted upon according to recognizable working subjects. If one can clearly parcel out incoming mail in an orderly manner, one can use the identical pattern in determining primary subject headings for files. Subdivisions are most useful when they show the natural categories under which incoming work will be resorted for action. Thus the primary subject defines incoming work according to program (readily understandable to everyone including clerks in the mailroom) so the secondary subjects define incoming work according to the techniques and practices of the group of persons who will actually perform the work; in other words, the action assignment pattern. A general rule of thumb is that records should be filed in the same way that assignments are described, which should not change if there is no change in legislation or policies.

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01 AERONAUTICS (GENERAL)

RELATED TOPIC:

World Space Programs and Aerospace Law 84-01
NASA programs in general, foreign aerospace programs, international cooperation, law related to space and aeronautics, Congressional aerospace hearings.

02 AERODYNAMICS

AERODYNAMIC CHARACTERISTICS 02-01

Lift, drag, and factors affecting pitch, roll and yaw.

AERODYNAMICS OF BODIES 02-02

Aerodynamics of bodies of revolution, cylinders, cones and lifting bodies.

AIRFOIL AND WING AERODYNAMICS 02-03

Aerodynamics of wings and airfoil shapes and forms; supercritical wing.

RELATED TOPICS:

Wind Tunnels 09-01

Wind tunnel and shock tube installations, test programs, and technology.

Boundary Layer Technology 34-01

Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.

03 AIR TRANSPORTATION AND SAFETY

COMMERCIAL AND GENERAL AVIATION 03-01

Design, operation and maintenance of specific aircraft used in, or being developed for, civil aviation; airports and facilities; air traffic control and navigation.

HELICOPTERS AND GROUND EFFECT MACHINES 03-02

Helicopters, rotary wing aircraft, ground effect machines, hovercraft, flying platforms, etc.

STOL/VTOL AIRCRAFT 03-03

Aircraft capable of short or vertical takeoffs and landings.

SUPERSONIC TRANSPORT 03-04

Research in supersonic, transonic, and hypersonic transport types, concepts, specifications, and performances.

AIRCRAFT NOISE AND SONIC BOOM 03-05

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AIRCRAFT SAFETY AND SAFETY DEVICES 03-06

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05-02

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Spacecraft and Aircraft Instrumentation

19-01

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07 AIRCRAFT PROPULSION AND POWER

JET PROPULSION

07-01

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08 AIRCRAFT STABILITY AND CONTROL

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Aerodynamic Characteristics

02-01

Lift, drag, and factors affecting pitch, roll and yaw.

Boundary Layer Technology

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09 RESEARCH AND SUPPORT FACILITIES (AIR)

WIND TUNNELS

09-01

Wind tunnel and shock tube installations, test programs, and technology. See also Subject Group 02, Aerodynamics.

RELATED TOPIC:

Commercial and General Aviation

03-01

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ASTRONAUTICS

12 ASTRONAUTICS (GENERAL)

RELATED TOPIC:

World Space Programs and Aerospace Law

84-01

NASA programs in general, foreign aerospace programs, international cooperation, law related to space and aeronautics, Congressional aerospace hearings.

13 ASTRODYNAMICS

CELESTIAL MECHANICS AND ORBITAL CALCULATIONS

13-01

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14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

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Upper atmosphere aerology and meteorology probes and other small launch vehicles.	
SPACE PROBES	15-03
Lunar and planetary probes, including Pioneer, Ranger, Mariner, Voyager, and deep space probes.	
SCIENTIFIC SATELLITES	15-04
Geophysical and astronomical satellites, orbiting observatories, Discoverer and Explorer satellites.	
REENTRY VEHICLES	15-05
All vehicles and maneuverable vehicles capable of entering a planetary atmosphere, also decelerators, drogues and other devices used with reentry vehicles, lifting bodies. See also 16-01, Space Transportation and Manned Spacecraft.	
U.S.S.R. SPACECRAFT	15-06
All U.S.S.R. spacecraft and programs, manned and unmanned.	
<i>RELATED TOPICS:</i>	
Spacecraft Ground Support	14-01
Launch facilities, control networks, vehicle maintenance and servicing. For spacecraft tracking stations and networks, see 17-04 and 32-03.	
Spacecraft and Aircraft Instrumentation	19-01
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.	
Communication Satellites	32-01
INTELSAT, WESTAR, MARISAT, and other domestic and foreign communication satellites.	
Meteorological Satellites	47-01
Nimbus, Tiros, and meteorological data from satellites.	
16 SPACE TRANSPORTATION	
SPACE TRANSPORTATION AND MANNED SPACECRAFT	16-01
All manned space vehicles, including the Shuttle, Apollo, Skylab, Spacelab, Apollo-Soyuz Test Program, and other orbiting laboratories and manned flights. For U.S.S.R. spacecraft, see 15-06.	
17 SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING	
SPACE COMMUNICATIONS	17-01
Reentry, lunar, interplanetary, satellite, and spacecraft communications. Does not include references to Communication Satellites, for which see 32-01.	

NAVIGATION SYSTEMS	17-02
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation; and navigation instruments.	
GUIDANCE SYSTEMS	17-03
Spacecraft guidance and control, midcourse guidance and reentry guidance, and spacecraft guidance systems.	
TRACKING	17-04
Tracking installations, personnel, equipment, and systems using radio, radar, infrared, or optical techniques.	
<i>RELATED TOPICS:</i>	
Radar Equipment	33-01
Radar types, applications and component parts.	
Antennas	33-03
Radar and radio antennas and applications.	
See also topics under Subject Group 32, Communications.	
18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE	
SPACECRAFT ATTITUDE CONTROL AND STABILIZATION	18-01
Attitude control system, stability techniques, and instrumentation.	
RENDEZVOUS AND DOCKING	18-02
Rendezvous guidance, rendezvous trajectories and docking techniques.	
19 SPACECRAFT INSTRUMENTATION	
SPACECRAFT AND AIRCRAFT INSTRUMENTATION	19-01
Spacecraft and aircraft instruments, gauges, indicators, and instrument systems.	
SENSORS AND TRANSDUCERS	19-02
Sensing elements used in space vehicles or aerospace services; pressure, temperature, acoustic transducers, etc.	
<i>RELATED TOPICS:</i>	
Navigation Systems	17-02
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation, and navigation instruments.	
Telemetry	32-04
Data transmission and measuring, biotelemetry, telephotometry, and telepsychometry.	
Bioinstrumentation	54-05
Biotelemetry, medical electronics, physiological monitoring, biological measurement, and biological data handling.	
See also other topics under Subject Group 32, Communications.	
20 SPACECRAFT PROPULSION AND POWER	
ROCKET ENGINES, NOZZLES AND THRUST CHAMBERS	20-01
Specific engines used in rocket propulsion, nozzle and thrust chamber design, materials, and performance.	
AUXILIARY PROPULSION	20-02
Spacecraft propulsion systems other than the main propulsion system (i.e., steering jets, retrorockets, and propulsion units for extravehicular operations).	
ELECTRIC PROPULSION	20-03
Propulsion systems by charged electrical particles accelerated by electrical or magnetic fields; includes electromagnetic and electrostatic propulsion.	
<i>RELATED TOPIC:</i>	
Jet Propulsion	07-01
Turbojet, pulsejet, and ramjet propulsion systems including specific engines.	
See also topics under Subject Group 44, Energy Production and Conversion.	

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

CHEMICAL ANALYSIS	23-01
Qualitative, quantitative, X-ray, chromatography, and other analytical techniques.	
CHEMICAL PROCESSES AND ENGINEERING	23-02
Chemical processes and specific chemical reactions such as oxidation, nitration, hydrogenation, etc.	
LUMINESCENCE	23-03
Chemiluminescence, fluorescence, phosphorescence, bioluminescence, and related topics.	
PHOTOCHEMISTRY	23-04
Photolysis, photosynthesis, and actinometry.	
RELATED TOPIC:	
Biochemistry	51-02
Chemistry of living organisms and physiochemistry.	

24 COMPOSITE MATERIALS

COMPOSITE MATERIALS	24-01
Types of composite materials, including laminates, sandwich materials and cermets; properties and uses.	
REINFORCED MATERIALS AND FIBERS	24-02
Materials reinforced by inclusions, fiber reinforcement, whiskers, filament wound vessels.	

25 INORGANIC AND PHYSICAL CHEMISTRY

CORROSION	25-01
Metal corrosion, stress corrosion, corrosion prevention, and tests for corrosion.	
METAL CRYSTALS	25-02
Structure, defects, and technology of metal crystals.	
COATINGS	25-03
Types of coatings, properties and uses; coating techniques.	
ELECTROCHEMISTRY	25-04
Electrochemical processes, electrolysis, and electrolytic processes.	

26 METALLIC MATERIALS

ALUMINUM	26-01
Aluminum, aluminum alloys, compounds and powdered aluminum; properties and uses.	
BERYLLIUM	26-02
Beryllium, beryllium alloys and compounds; properties and uses.	
LIQUID METALS	26-03
Characteristics, properties, technology, and uses of liquid metals.	
STEEL	26-04
Types of steel and stainless steel alloys; properties and uses.	
TITANIUM	26-05
Titanium and titanium alloys, properties and uses.	
REFRACTORY METALS	26-06
Refractory metals and alloys, and superalloys; properties and uses.	
METALLURGY	26-07
Powder metallurgy, sintering, fractography and metallography.	

27 NONMETALLIC MATERIALS

PLASTICS	27-01
Specific plastics, thermoplastics, resins, thermosetting plastics, high temperature plastics, silicones and styrenes; properties and uses.	

ADHESIVES	27-02
Types of adhesives, properties and uses.	
CERAMICS	27-03
Specific ceramics, properties, and uses.	
ELASTOMERS	27-04
Specific elastomers, properties and uses.	
GRAPHITE	27-05
Graphite, pyrolytic graphite, pyrographic alloy; properties and uses.	
POLYMERS	27-06
Types of polymers, properties and uses; polymer chemistry and polymer physics.	
28 PROPELLANTS AND FUELS	
LIQUID PROPELLANTS	28-01
Cryogenic, hydrogenic, and thixotropic propellants; uses, properties, manufacture, storage and handling; oxidizers and igniters used with liquid propellants.	
SOLID PROPELLANTS	28-02
Types, uses, properties; manufacture, storage and handling, propellant grain studies, and oxidizers and igniters used with solid propellants.	
<u>ENGINEERING</u>	
31 ENGINEERING (GENERAL)	
<i>RELATED TOPICS:</i>	
See specific topics under Subject Groups 32-39.	
32 COMMUNICATIONS	
COMMUNICATION SATELLITES	32-01
INTELSAT, WESTAR, MARISAT, and other domestic and foreign communications satellites.	
COMMUNICATION EQUIPMENT	32-02
Communication equipment, including radio, microwave, infrared, light and television equipment.	
COMMUNICATION SYSTEMS	32-03
Types of communication systems; e.g., television, digital, etc., and specific systems; e.g., Defense Communication Systems, Deep Space Network, etc.	
TELEMETRY	32-04
Data transmission and measuring biotelemetry, telephotometry, and telepsychometry.	
RADIO NOISE	32-05
Studies of radio noise sources, random noise, signal-to-noise ratio, noise reduction, and noise measurement.	
COMMUNICATION THEORY	32-06
Information theory, coding automata theory, signal processing, and decision theory.	
<i>RELATED TOPICS:</i>	
Radar Equipment	33-01
Radar types, applications and component parts.	
Antennas	33-03
Radar and radio antennas and applications.	
See also topics under Subject Group 17, Spacecraft Communications, Command and Tracking.	
33 ELECTRONICS AND ELECTRICAL ENGINEERING	
RADAR EQUIPMENT	33-01
Radar types, applications, and component parts.	

SEMICONDUCTORS AND TRANSISTORS	33-02
Semiconductors and transistors; types, devices, materials, and applications. See also Solid State Devices, 76-01.	
ANTENNAS	33-03
Radar and radio antennas and applications.	
ELECTRONIC COMPONENTS	33-04
Types, design, applications, packaging, and reliability.	
CIRCUITRY	33-05
Circuit theory, production techniques, reliability, protection, and applications. For microcircuits see 33-10, Microelectronics.	
ELECTRICAL EQUIPMENT	33-06
Generators, motors, connectors, and insulation; design and application.	
AMPLIFIERS	33-07
Types of electronic amplifiers, design, and application. For fluid amplifiers see also 34-03, Fluidics.	
FEEDBACK AND CONTROL THEORY	33-08
Systems, techniques, and designs.	
ELECTROMAGNETIC RADIATION	33-09
Wave propagation, electromagnetic effects, properties, detection, and application.	
MICROELECTRONICS	33-10
Microcircuits, microelectronic devices and components, microminiaturized electronic equipment.	
MICROWAVE AND SUBMILLIMETER WAVE TECHNOLOGY	33-11
Microwave research, measurement techniques, generation, modulation, and absorption.	
MAGNETISM	33-12
Theory and research, aeromagnetism, ferromagnetism, hydromagnetism, paramagnetism, and thermomagnetism.	
<i>RELATED TOPICS:</i>	
Auxiliary Electrical Systems	05-02
Electric auxiliary power supply systems, distribution systems, components, and applications.	
Communication Equipment	32-02
Communication equipment, including radio, microwave, infrared, light, and television equipment.	
 34 FLUID MECHANICS AND HEAT TRANSFER	
BOUNDARY LAYER TECHNOLOGY	34-01
Boundary layer flow and mechanics, including boundary layer control, combustion control, separation, transition, and turbulence.	
GAS DYNAMICS	34-02
Applied and theoretical gas dynamics, problem solving, hypersonic and rarefied gas dynamics.	
FLUIDICS	34-03
Fluid amplification, fluid logic circuits, and fluid devices.	
FLUID FLOW	34-04
Liquid flow, hydromechanics, and cavitation flow; does not include gas or air flow.	
COMBUSTION PHYSICS	34-05
Combustion phenomena, kinetics, instability, detonation, theory.	
HEAT TRANSFER, BASIC	34-06
Characteristics and studies of various forms of heat transfer, heat dissipation, and heat resistance.	
REENTRY HEAT TRANSFER	34-07
Heat transfer problems on reentry and their solution.	

THERMAL PROTECTION	34-08
Methods and materials used in thermal insulation and protection and for various types of cooling.	
ABLATION	34-09
Ablation studies, ablating materials, and application to reentry vehicles and rocket nozzles.	
CRYOGENICS	34-10
Low temperature research. For cryogenic propellants see 28-01.	
<i>RELATED TOPICS:</i>	
Aerodynamic Characteristics	02-01
Lift, drag, and factors affecting pitch, roll and yaw.	
Gas Flow Measurement	35-08
Devices, applications and systems for measuring gas flow.	
35 INSTRUMENTATION AND PHOTOGRAPHY	
PHOTOGRAPHY	35-01
Cameras and photographic equipment and methods including optical, aerial, and radar photography.	
INFRARED TECHNOLOGY	35-02
Infrared devices, including scanners, detectors, filters, cameras, and masers.	
INSTRUMENT STANDARDS AND CALIBRATION TECHNIQUES	35-03
Measurement and radiation standards and calibration of instruments.	
TEMPERATURE MEASUREMENT	35-04
Heat and temperature measuring devices, applications, and systems.	
PRESSURE MEASUREMENT	35-05
Pressure measuring devices, applications, and systems.	
DISPLAY SYSTEMS	35-06
Cathode ray tubes and display techniques and principles.	
DATA RECORDING	35-07
Data recorders and recording systems and techniques.	
GAS FLOW MEASUREMENT	35-08
Devices, applications and systems for measuring gas flow.	
<i>RELATED TOPICS:</i>	
Navigation Systems	17-02
Spacecraft and aircraft navigation systems including star trackers, inertial systems, Doppler and stellar navigation, and navigation instruments.	
Telemetry	32-04
Data transmission and measuring, biotelemetry, telephotometry, and telepsychometry.	
Meteorological Instruments	47-05
Types and uses of meteorological instruments.	
Bioinstrumentation	54-05
Biotelemetry, medical electronics, physiological monitoring, biological measurement, and biological data handling.	
See also topics under Subject Group 19, Spacecraft Instrumentation.	
36 LASERS AND MASERS	
LASERS AND MASERS	36-01
References to lasers and masers in general, laser theory, and types of lasers and masers.	
LASER APPLICATIONS	36-02
Laser communications, laser photography, and laser ranging.	
37 MECHANICAL ENGINEERING	
BEARINGS AND GEARS	37-01
Types of bearings and gears, uses, materials, and applications.	

LUBRICATION AND LUBRICANTS	37-02
Lubrication materials, systems, and applications.	
MACHINING	37-03
Machining processes and techniques and machine tools.	
FRICITION AND WEAR	37-04
Types of friction, friction measurement and effects, frictionless environment, and wear effects.	
SEALS	37-05
Sealants, gaskets, packing, leakage, self-sealing materials, and sealing techniques.	
WELDING	37-06
Brazing, bonding, soldering, and welding techniques and processes; weldability of various materials, and properties and characteristics of welds.	
METAL FORMING	37-07
Theory, techniques, and processes of metal forming other than machining.	
PUMPS	37-08
Pumps, pump seals, and pumping in aerospace technology.	
VACUUM TECHNOLOGY	37-09
Vacuum systems, techniques and processes; vacuum testing measurement and material fabrication.	
NONDESTRUCTIVE TESTING	37-10
Techniques and processes for the nondestructive testing of materials, including infrared, ultrasonic, and X-ray testing.	
TURBOMACHINERY	37-11
Axial flow machines, centrifugal compressors and pumps, gas turbines, turbocompressors, turbine pumps, turbofans, turbogenerators.	
 38 QUALITY ASSURANCE AND RELIABILITY	
QUALITY CONTROL AND RELIABILITY	38-01
Product development, qualitative testing and analysis of materials and structures, and reliability criteria for components and structures.	
 39 STRUCTURAL MECHANICS	
SHELLS	39-01
Shell structures, stresses, loads, buckling and vibration.	
STRESSES AND LOADS	39-02
Stresses and loads on launch vehicles, spacecraft, and aerospace structures.	
STRUCTURE VIBRATION AND DAMPING	39-03
Vibration and damping in aerospace structures, spacecraft and airframes; panel flutter.	
IMPACT PHENOMENA	39-04
Studies of impact phenomena in aerospace structures and components; also micrometeoroid impact damage.	
STRUCTURAL FATIGUE	39-05
Fatigue studies and analysis, techniques for aerospace structures and components.	
SANDWICH CONSTRUCTION	39-06
Honeycomb, multilayer and laminated fabrication, techniques and structures.	
STRESS ANALYSIS	39-07
Stress calculation and analysis of structures.	
STRUCTURAL TESTS AND RELIABILITY	39-08
Destructive and nondestructive testing and reliability of aerospace structures.	

GEOSCIENCES

42 GEOSCIENCES (GENERAL)

RELATED TOPICS:

See specific topics under Subject Groups 43-48.

43 EARTH RESOURCES

EARTH RESOURCES

43-01

Earth resources studies; the role of satellites in natural resource development, geology, agriculture, forestry.

GEODESY AND CARTOGRAPHY

43-02

Geodetic positions, satellite surveying, geodetic applications, mapping techniques, analyzing methods, and mapping systems.

RELATED TOPICS:

Water Resources and Oceanography

48-01

Water conservation and development; hydrology; remote sensing of floods, snow cover, ice; oceanography, other hydrosphere studies.

Urban Technology and Transportation

85-01

Application of aerospace technology to the problems of cities; urban development, planning, research, and transportation; rail transportation; rapid transit systems; police services; water and sewage treatment; waste utilization, and land use.

44 ENERGY PRODUCTION AND CONVERSION

ENERGY RESOURCES

44-01

Production, conversion, transmission, conservation of energy; solar energy conversion; wind power; remote survey of energy resources; hydrogen economy.

FUEL CELLS AND CHEMICAL BATTERIES

44-02

Electrochemical, biochemical and regenerative fuel cells; silver-cadmium, nickel-oxide and other batteries.

SOLAR SPACE POWER

44-03

Photovoltaic cells, solar cells, solar energy, absorbing films; solar energy converters and solar power systems.

NUCLEAR AUXILIARY POWER

44-04

Nuclear auxiliary reactors, isotopic space power, and specific SNAP Systems.

45 ENVIRONMENT POLLUTION

ENVIRONMENTAL POLLUTION CONTROL

45-01

Applications of aerospace techniques, including remote sensing, to all aspects of air, water, thermal, and environmental pollution; specific pollutants, noise, noise injuries, noise meters, atmospheric composition, water quality.

46 GEOPHYSICS

UPPER EARTH ATMOSPHERE

46-01

Earth atmosphere above the troposphere; ionospheric composition, phenomena, chemical reactions and satellite measurement.

GEOLOGY AND SEISMOLOGY

46-02

Earth geology, petrography, and orography; earthquake detection, measuring and recording instruments, and theoretical models.

GEOMAGNETISM

46-03

Geomagnetic anomaly, fields, latitudes, pulsations, storms, and measuring and data transmitting instruments.

RELATED TOPICS:

Sounding Rockets

15-02

Upper atmosphere aerology and meteorology probes, and other small launch vehicles.

Meteorological Satellites	47-01
Nimbus, Tiros, meteorological data from satellites.	
Gravitation	90-01
Gravitational theory, effect and fields, equations and potential; antigravity, gravitational collapse, and gravity gradient control of satellites.	
Radiation Belts	93-03
Inner and outer radiation belts, Van Allen Belt, artificial radiation belts, and trapped radiation.	
47 METEOROLOGY AND CLIMATOLOGY	
METEOROLOGICAL SATELLITES	47-01
Nimbus, Tiros, meteorological data from satellites.	
WEATHER FORECASTING	47-02
Methods and instruments of weather data acquisition and processing; theory and methods of weather prediction.	
MICROMETEOROLOGY	47-03
Smallest scale observation of physical and dynamic occurrences within the surface boundary layer of the atmosphere; includes turbulence, air pollution, launch conditions.	
CLOUD RESEARCH	47-04
Types of cloud formation, cloud physics, nephanalysis, and cloud seeding.	
METEOROLOGICAL INSTRUMENTS	47-05
Types and uses of meteorological instruments.	
RELATED TOPICS:	
Upper Earth Atmosphere	46-01
Earth atmosphere above the troposphere; ionospheric composition, phenomena, chemical reactions and satellite measurement.	
Sounding Rockets	15-02
Upper atmosphere aerology and meteorology probes and small launch vehicles.	
48 OCEANOGRAPHY	
WATER RESOURCES AND OCEANOGRAPHY	48-01
Water conservation and development; hydrology; remote sensing of floods, snow cover, ice; oceanography, other hydrosphere studies.	
<u>LIFE SCIENCES</u>	
51 LIFE SCIENCES (GENERAL)	
BIOLOGY (GENERAL)	51-01
Microbiology, ecology, botany, genetics and cytology.	
BIOCHEMISTRY	51-02
Chemistry of living organisms and physiochemistry.	
52 AEROSPACE MEDICINE	
AEROSPACE MEDICINE	52-01
Aerospace medical problems and studies, e.g., toxicity and weightlessness; medical aspects of astronaut performance reaction, and neurophysiology.	
CLINICAL MEDICINE	52-02
General medicine, body systems and functions, diseases, and drugs.	
PHYSIOLOGICAL FACTORS	52-03
Functions related to body composition, physical performance reaction, and neurophysiology.	
BIOLOGICAL RADIATION EFFECTS	52-04
Effects of radiation on the human body and other living organisms.	

53 BEHAVIORAL SCIENCES

PSYCHOLOGICAL FACTORS

Factors related to psychology, psychiatry, individual and group behavior, crew training and testing.

53-01

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

LIFE SUPPORT SYSTEMS

Systems that support life in spacecraft, isolation chambers or uninhabitable environments, including space cabin atmosphere, food, water, and waste disposal.

54-01

CREW SAFETY AND PROTECTIVE CLOTHING

Survival techniques, escape, rescue, and protective clothing and equipment, space suits.

54-02

HUMAN ENGINEERING

Design and engineering of devices, equipment, and artificial environments to the requirements of man.

54-03

MAN-MACHINE SYSTEMS

Systems in which man and machine are interrelated.

54-04

BIOINSTRUMENTATION

Biotelemetry, medical electronics, physiological monitors, biological measurement, and biological data handling.

54-05

RELATED TOPIC:

Cybernetics and Bionics

63-01

Methods of control and communications common to living organisms and machines and those systems that function in the manner of or resembling human systems.

55 PLANETARY BIOLOGY

EXTRATERRESTRIAL LIFE

Exobiology and detection, simulation, and genesis of life outside earth.

55-01

RELATED TOPIC:

Sterilization

14-04

Spacecraft sterilization, sterilization methods, clean rooms, and contamination control.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

APPLIED MATHEMATICS

Mathematical applications in physical, biological and aerospace sciences.

59-01

DATA PROCESSING

Automatic source data processing, data handling, conversion and compression.

59-02

60 COMPUTER OPERATIONS AND HARDWARE

DIGITAL AND ANALOG COMPUTERS

Computer hardware, structure, peripheral equipment, and applications; hybrid computers.

60-01

AIRBORNE OR SPACEBORNE COMPUTERS

Computer design for onboard spacecraft or aircraft use.

60-02

61 COMPUTER PROGRAMMING AND SOFTWARE

COMPUTER SOFTWARE

Programming and computer languages, systems analysis, data management.

61-01

62 COMPUTER SYSTEMS

RELATED TOPICS:

Computer Software

61-01

Programming and computer languages, systems analysis, data management.

Aerospace Management	81-01
Management techniques, cost control, production engineering, personnel management.	
63 CYBERNETICS	
CYBERNETICS AND BIONICS	63-01
Methods of control and communications common to living organisms and machines and those systems that function in the manner of or resembling human systems.	
64 NUMERICAL ANALYSIS	
NUMERICAL ANALYSIS	64-01
Mathematical models, theoretical studies and applications.	
65 STATISTICS AND PROBABILITY	
STATISTICS AND PROBABILITY	65-01
Statistical techniques and applications, probability and reliability theory, probability equations, and problem solving.	
66 SYSTEMS ANALYSIS	
RELATED TOPIC:	
Computer Software	61-01
Programming and computer languages, systems analysis, data management.	
67 THEORETICAL MATHEMATICS	

PHYSICS

70 PHYSICS (GENERAL)	
RELATED TOPICS:	
See specific topics on Subject Groups 71-77.	
71 ACOUSTICS	
ACOUSTICS	71-01
Acoustic attenuation, simulation, scattering radiation and vibration; hydroacoustics.	
ULTRASONICS	71-02
Use in medicine and materials research, absorption properties and effects.	
72 ATOMIC AND MOLECULAR PHYSICS	
ATOMIC PHYSICS	72-01
Atomic theory, collision, beams, energy, reactions, and properties.	
MOLECULAR PHYSICS	72-02
Molecular theory, energy, structure, collision, beams, properties, molecules, and instrumentation.	
73 NUCLEAR AND HIGH-ENERGY PHYSICS	
NUCLEAR PHYSICS	73-01
Nuclear particles, structure, reactions, and force.	
RADIOACTIVITY	73-02
Measurement, detection, material, waste, fission products, and radioactive elements.	

<i>RELATED TOPIC:</i>	
Cosmic Radiation	93-01
Primary and secondary cosmic radiation, galactic and stellar radiation.	
74 OPTICS	
OPTICS	74-01
Optical equipment and technology, electron optics, crystal optics, fiber optics, and optical properties.	
LIGHT	74-02
Light scattering, measurement effects and transmission.	
75 PLASMA PHYSICS	
PLASMA APPLICATIONS	75-01
Plasma arc welding, plasma spraying, plasma power source, plasma jet technology.	
PLASMA DYNAMICS	75-02
Plasma theory, conductivity, diagnostics, plasma pinch, plasma sheath, plasma waves, and plasma oscillations.	
MAGNETOHYDRODYNAMICS	75-03
Magnetohydrodynamic theory and applications.	
<i>RELATED TOPIC:</i>	
Astrophysical Plasmas	90-02
Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.	
76 SOLID-STATE PHYSICS	
SOLID STATE DEVICES	76-01
Devices using solid state components, diodes, and rectifiers.	
SUPERCONDUCTIVITY	76-02
Superconductivity, superconducting magnets, superconducting transition temperatures, critical temperatures, and critical field curves of superconducting material.	
DIELECTRICS	76-03
Dielectric material including dielectric constant of materials, electric losses and ohmic resistance of compounds, permeability and polarization of dielectric substances and media.	
EPITAXIAL DEPOSITION	76-04
Epitaxial film deposition techniques; electrical properties of epitaxial deposited films and applications.	
<i>RELATED TOPICS:</i>	
Metal Crystals	25-02
Structure, defects, and technology of metal crystals.	
Semiconductors and Transistors	33-02
Semiconductor and transistor types, devices, materials and applications.	
Magnetism	33-12
Theory and research, aeromagnetism, ferromagnetism, hydromagnetism, paramagnetism, and thermomagnetism.	
77 THERMODYNAMICS AND STATISTICAL PHYSICS	
<i>RELATED TOPICS:</i>	
Statistics and Probability	65-01
Statistical techniques and applications, probability and reliability theory, probability equations, and problem solving.	
Molecular Physics	72-02
Molecular theory, energy, structure, collision, beams, properties, molecules, and instrumentation.	

SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)

RELATED TOPICS:

See specific topics in Subject Groups 81-85.

81 ADMINISTRATION AND MANAGEMENT

AEROSPACE MANAGEMENT

Management techniques, cost control, production engineering, personnel management.

81-01

82 DOCUMENTATION AND INFORMATION SCIENCE

INFORMATION TECHNOLOGY

Documentation, information processing and retrieval, and information systems.

82-01

83 ECONOMICS AND COST ANALYSIS

RELATED TOPIC:

Aerospace Management

Management techniques, cost control, production engineering, personnel management.

81-01

84 LAW AND POLITICAL SCIENCE

WORLD SPACE PROGRAMS AND AEROSPACE LAW

NASA programs in general, foreign aerospace programs, international cooperation, law related to space and aeronautics, Congressional aerospace hearings.

84-01

85 URBAN TECHNOLOGY AND TRANSPORTATION

URBAN TECHNOLOGY AND TRANSPORTATION

Application of aerospace technology to the problems of cities; urban development, planning, research, and transportation; rail transportation, rapid transit systems, police services; water and sewage treatment; waste utilization, and land use.

85-01

SPACE SCIENCES

88 SPACE SCIENCES (GENERAL)

RELATED TOPICS:

See specific topics under Subject Groups 89-93.

89 ASTRONOMY

SOLAR ASTRONOMY

Solar activity, physics, solar telescopes and observatories.

89-01

STELLAR ASTRONOMY AND COSMOLOGY

Stellar, galactic astronomy, including radioastronomy; origin and evolution of the universe.

89-02

METEORS AND METEORITES

Meteor properties and hazards, micrometeoroids and micrometeorites, comets, interplanetary dust.

89-03

90 ASTROPHYSICS

GRAVITATION

Gravitational theory, effect and fields, equations and potential; antigravity, gravitational collapse, gravity gradient control of satellites, geophysical gravitational fields.

90-01

ASTROPHYSICAL PLASMAS

Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.

90-02

91 LUNAR AND PLANETARY EXPLORATION

THE MOON

91-01

Studies of the lunar surface and lunar surface data, lunar interior, lunar environment, spacecraft and vehicles used in exploration, specific projects, and lunar landings.

PLANETARY SCIENCES AND EXPLORATION

91-02

Planetary composition, surfaces, atmospheres, and environment, spacecraft and vehicles used in planetary exploration.

RELATED TOPICS:

Space Probes

15-03

Lunar and planetary probes, including Pioneer, Ranger, Mariner, Voyager, and deep space probes.

Astrophysical Plasmas

90-02

Solar, cosmic, and interstellar plasmas, solar atmosphere, and stellar plasma.

92 SOLAR PHYSICS

RELATED TOPIC:

Solar Astronomy

89-01

Solar activity, physics, solar telescopes and observatories.

93 SPACE RADIATION

COSMIC RADIATION

93-01

Primary and secondary cosmic radiation, galactic and stellar radiation.

SOLAR RADIATION AND ACTIVITY

93-02

Solar radiation, observation, instrumentation, hazards to space flight, protection from solar radiation, solar storms, solar flares, solar winds, and sunspots.

RADIATION BELTS

93-03

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